

Report By:

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Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/31/2024

PROJECT

07-08-24 WAWA #05803 ROBERTSDALE, AL

21022 HWY 59 BALDWIN

ROBERTSDALE, AL 36567

Client

Wawa
260 West Baltimore Pike
Wawa, PA 19063

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System/Unit: AHU/RTU



Asset: RTU1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX
Serial Num	-	5623L01920
Model Num	LCT102H4E	LCT102H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23x14.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	3400	3338
RA CFM	2790	2710
OA CFM	610	628
RL Voltage	-	212/213/213
RL Amperage	-	3.0/2.4/2.5
SF System SetPt	-	62%
RA Damper Position	-	69%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	31%
OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.36"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.45"
Total ESP	0.5"	0.81"
Fan Total SP	-	1.14"

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

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AHU/RTU



Diffuser Supply (GRD)

RTU1/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RETAIL	LD1	10"	300	1	429	345	281	93.7
SGRD2	RETAIL	LD1	10"	300	1	428	329	300	100.0
SGRD3	RETAIL	LD1	10"	300	1	267	227	232	77.3
SGRD4	ASSOCIATES	CD1	8"	150	1	178	153	147	98.0
SGRD5	OFFICE	CD1	8"	150	1	201	174	156	104.0
SGRD6	RETAIL	LD1	10"	325	1	512	421	350	107.7
SGRD7	RETAIL	LD1	10"	325	1	463	399	323	99.4
SGRD8	RETAIL	LD1	10"	300	1	289	260	271	90.3
SGRD9	RETAIL	LD1	10"	290	1	344	278	313	107.9
SGRD10	DELIVERY VESTIBULE	CD1	8"	200	1	261	219	192	96.0
SGRD11	RETAIL	LD1	10"	280	1	430	343	295	105.4
SGRD12	RETAIL	LD1	10"	280	1	122	108	285	101.8
SGRD13	REAR VESTIBULE	CD3	6"	100	1	94	87	93	93.0
SGRD14	MENS RR	CD3	6"	50	1	109	99	54	108.0
SGRD15	WOMENS RR	CD3	6"	50	1	120	92	46	92.0
Total				3400		4247	3534	3338	98.18%

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System/Unit: AHU/RTU



Asset: RTU2

AREA:FOOD SERVICE

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX
Serial Num	-	5624B06330
Model Num	LCT120H4E	LCT120H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23x14.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	4000	4147
RA CFM	3350	3478
OA CFM	650	669
RL Voltage	-	211/212/212
RL Amperage	-	5.5/5.5/5.6
SF System SetPt	-	82%
RA Damper Position	-	75%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	25%
OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.27"
Fan Suction SP	-	-1.66"
Fan Discharge SP	-	0.55"
Total ESP	0.5"	1.82"
Fan Total SP	-	2.21"

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

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AHU/RTU



Diffuser Supply (GRD)

RTU2/FOOD SERVICE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FOOD SERVICE	LD1	10"	400	1	319	389	418	104.5
SGRD2	FOOD SERVICE	LD1	10"	400	1	335	364	389	97.3
SGRD3	FOOD SERVICE	LD1	10"	400	1	405	391	408	102.0
SGRD4	FOOD SERVICE	LD1	12"	500	1	635	522	539	107.8
SGRD5	FOOD SERVICE	LD1	12"	500	1	368	508	533	106.6
SGRD6	FOOD SERVICE	LD1	12"	500	1	363	420	495	99.0
SGRD7	WASHROOM	LD1	10"	400	1	425	445	411	102.8
SGRD8	BACKROOM	CD1	10"	300	1	493	310	328	109.3
SGRD9	STAGING	CD1	6"	50	1	95	52	52	104.0
SGRD10	ELECTRICAL ROOM	CD1	12"	550	1	524	565	574	104.4
Total				4000		3962	3966	4147	103.68%

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Project: 07-08-24 WAWA #05803 ROBERTSDALE, AL

System/Unit: AHU/RTU



Asset: RTU3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX
Serial Num	-	5623L02244
Model Num	LCT092H4E	LCT092H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23x14.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Test Data		
	Design	Actual
SF CFM	3000	3131
RA CFM	2610	2730
OA CFM	390	401
RL Voltage	-	211/212/212
RL Amperage	-	2.9/3.0/3.0
SF System SetPt	-	65%
RA Damper Position	-	77%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	23%
OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.75"
Fan Suction SP	-	-1.02"
Fan Discharge SP	-	0.46"
Total ESP	0.5"	1.21"
Fan Total SP	-	1.48"

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

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AHU/RTU



Diffuser Supply (GRD)

RTU3/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT VESTIBULE	CD2	12"	590	1	761	597	607	102.9
SGRD2	RETAIL	LD1	10"	310	1	109	402	331	106.8
SGRD3	RETAIL	LD1	10"	300	1	446	253	320	106.7
SGRD4	RETAIL	LD1	10"	300	1	640	285	309	103.0
SGRD5	COFFEE/SPECIALTY BEV	LD1	10"	300	1	110	434	327	109.0
SGRD6	COFFEE/SPECIALTY BEV	LD1	10"	300	1	82	381	319	106.3
SGRD7	COFFEE/SPECIALTY BEV	LD1	10"	300	1	484	309	306	102.0
SGRD8	RETAIL	LD1	10"	300	1	425	265	307	102.3
SGRD9	RETAIL	LD1	10"	300	1	121	282	305	101.7
Total				3000		3178	3208	3131	104.37%

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System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-140	G-140-B-4-1-22-X
Serial Num	-	24139800
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1150	1089
Fan Rotation	-	CW
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	96
RL Amperage	-	4.3
Total ESP	0.25"	0.42"
Fan Inlet SP	-	-0.42"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	N/A
Frame	-	48Y
Horsepower	1/4	1/4
Motor Rpm	-	1140
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.2
Service Factor	-	1.00

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FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	FOOD SERVICE	G1	12"	500		748	493	508	101.6
EGRD2	WASHROOM	G1	10"	300		455	432	292	97.3
EGRD3	STAGING	G1	6"	100		31	109	107	107.0
EGRD4	WOMENS RR	G3	6"	100		62	64	50	50.0
EGRD5	MENS RR	G3	6"	50		85	82	65	130.0
EGRD6	MENS RR	G3	6"	100		89	93	72	72.0
Total				1150		1470	1273	1094	95.13%

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Project: 07-08-24 WAWA #05803 ROBERTSDALE, AL

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CSP-B110	CSP-A110
Serial Num	-	24134467
Type	INLINE	INLINE
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	60	102
Fan Rotation	-	CCW
System SetPt	-	MIN
RL Voltage	-	123
RL Amperage	-	0.1

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/A
Horsepower	21W	N/A
Motor Rpm	-	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.19
Service Factor	-	N/A

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